

DO NOT ENTER

PT 3/10/2010

**In the Claims:**

1. (Original) A method for automatic discovery of logical links associated with network devices comprising the steps of:

selecting a first managed network device having a first network interface, said first network device being managed by a network management system;

determining a local interface address and a next neighbor address associated with said first network interface;

comparing said local interface address and next neighbor address with endpoint address information associated with a plurality of logical links stored in a logical link database associated with said network management system;

creating a first logical link between said local interface address and said next neighbor address;

storing said first logical link in said logical link database;

displaying a graphical representation of said first logical link on a display device.

2. (Original) The method of claim 1 further comprising the step of comparing said next neighbor address with a managed devices database associated with said network management system.

3. (Original) The method of claim 2 further comprising the steps of:

determining that said next neighbor address is associated with a second managed network device;

identifying said first logical link as a logical link between managed network devices.

4. (Original) The method of claim 2 further comprising the steps of:

determining that said next neighbor address is not associated with a managed network device;

identifying said first logical link as a logical link between a managed network device and a network address.